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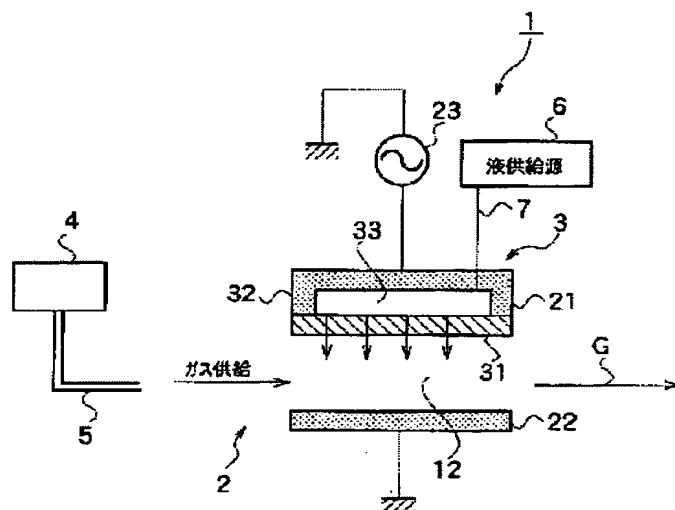
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TITLE : ELECTRIC DISCHARGE DEVICE



ABSTRACT : **PROBLEM TO BE SOLVED:** To provide an electric discharge device capable of surely supplying materials to an electric discharge part and optionally setting the mixing ratio of the materials.

SOLUTION: The electric discharge device 1 is composed of a discharge means 2 and a material supply means 3 as main structural elements. The discharge means 2 discharges in a discharge gas of a 1st material to generate plasma. A material supply means 3 supplies a liquid of a 2nd material directly into the plasma region. The material supply means 3 is provided with a material housing part 32 having a porous body 31 arranged in the plasma region side and the 2nd material is supplied to the material housing part 32 from a 2nd material supply source of the outside through a pipe line 7 and is supplied from the surface of the porous body 31 to the plasma region obtained by discharging between electrodes 21 and 22 in the discharge gas to vaporize the 2nd material.

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